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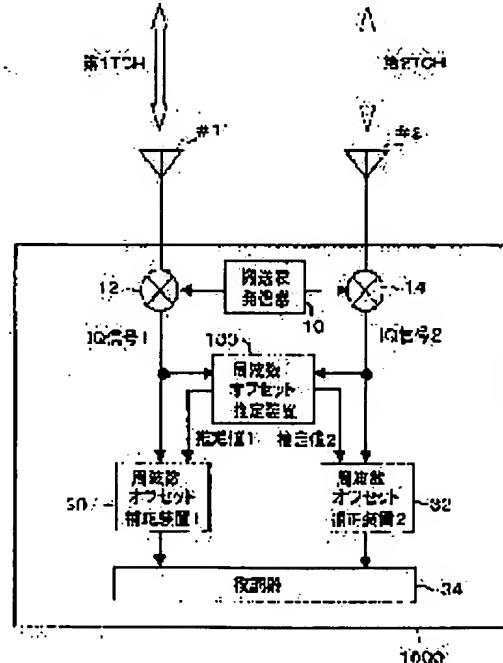
DOI YOSHIHARU

(54) RADIO DEVICE

(57) Abstract:

PROBLEM TO BE SOLVED: To provide a radio device having an arrangement for compensating a frequency offset in a terminal equipment which transmits/receives signals in a MIMO system.

SOLUTION: A radio device 1000 is provided with: a plurality of antennas #1-#2, a carrier wave generator 10 for generating carrier waves for detecting synchronization; multipliers 12 and 14 for respectively multiplying the carrier waves and for performing detection processing for a plurality of reception signals from a plurality of antennas; a frequency offset estimating device 100 for estimating a frequency offset based on signals from the multipliers 12 and 14 and for calculating a single frequency offset estimate when MIMO system communication is performed; and frequency offset correction devices 30 and 32 for performing correction processing of the frequency offset for signals from a plurality of multiplying means.



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